LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH80M 155277-1218 - Diesel Engine

Sample No: LH0191253

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH

A					
SAMF	LE INFOR	MATION			
Sample Number		LH0191253	LH0191255	LH0243741	
Sample Date		01 Mar 2024	11 Feb 2024	18 Jan 2024	
Machine Hours		850	600	362	
Oil Hours		250	238	221	
Oil Changed		Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
	NDITION				
Visc @ 100°C	cSt	11.8	O 12.1	12.2	
Base Number (BN)	mg KOH/g	12.8	O 7.1	7.3	
Oxidation (PA)	%	49	59	76	
CONT	AMINATI	ON			
Water	%	NEG	NEG	NEG	
Soot %	%	0.1	0.1	0	
Nitration (PA)	%	89	73	73	

Water	%	NEG	NEG	NEG	
Soot %	%	0.1	0.1	0	
Nitration (PA)	%	89	73	73	
Sulfation (PA)	%	45	52	60	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	ppm	7	6	7	
Sodium	ppm	2	O 2	4	
Potassium	ppm	0	3	4	

(O) WEAT					
WEA	R METALS				
Iron	ppm	5	O 1	O 4	
Copper	ppm	1	O 2	6	
Lead	ppm	0	0	O <1	
Tin	ppm	1	O <1	O <1	
Aluminum	ppm	1	O <1	2	
Chromium	ppm	0	O 0	O <1	
Molybdenum	ppm	1	O 0	8	
Nickel	ppm	0	O 0	O <1	
Titanium	ppm	0	<1	<1	
Silver	ppm	0	O 0	0	
Manganese	ppm	0	O <1	O <1	
Vanadium	ppm	0	0	<1	

ADD	ITIVES				
Calcium	ppm	3388	1161	1212	
Magnesium	ppm	288	○ 685	731	
Zinc	ppm	1094	O 763	○ 804	
Phosphorus	ppm	950	O 690	O 744	
Barium	ppm	0	O 0	O 0	
Boron	ppm	186	○ 87	108	



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Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:NUCNORUnique No:10914220Signed:Don BaldridgeReport Date:08 Mar 2024

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GRAPHS

